p 50

1899 – 900

Previous reference

Sls. 1--17, 18-19, (Eg. Mb) File no. 87 of 1899
&o-- 23, 24-28,
29-43. Sl. nos. 44–73.

Copies of Capts. A. Joly de Lobinieri's diary in connection with the Kaweri power Scheme.

New Terms.

6. In the event of John Taylor and Sons desiring a further supply of power and of their giving notice to that effect before the expiration of one year from the date on which power is first supplied under this Agreemnet, the State of Mysore agree to insta the necessary plant and to supply such further amount of power as may appear to the State to be reasonably likely to be utilised throughout the remaining period of this Agreement; provided that such further amount of power shall not be less than 2,000 horse Power nor more than 4,000 horse power.

Any power so supplied, and any less amount of additional power which the State may agree to supply shall be subject to the terms of this Agreement in the absence of any future agreement relating to any additional supply of Power.

19. If at any time during the period of this Agreement a portion of the power exceeding 1,000 horse power installed shall have been in disuse for a period of one year, or if John Taylor and Sons fail to show reasonable probability that such portion would be utilised for the remainder of the period of this Agreement, the State of Mysore reserves the right to discontinue the supply of such portion of the power; and John Taylor and Sons agree, on receipt of notice from the State to that effect, forthwith to disconnect the elctric motors installed to utilise the said portion of power in disuse, and not to connect the same again to the distributing circuits without the consent of the State of Mysore.

Preliminary Agreement on the part of the undersigned Gold Mining Companies on the Kolar Gold Fields in regard to the supply of Electrical Power to the said Companies by the State of Mysore.

We the undersigned Gold Mining Companies, hereby agree within three months from the date hereof to sign, seal and execute an agreement between ourselves and the State of Mysore in the terms set forth in the Draft Agreement hereto attached, on the condition that the State of Mysore agree to extend our leases at the Gold Fields for a further period of (blank) years, on the terms of existing leases, and on the understanding that any point not involving general principle which we may raise in regard to the said Draft Agreement hereto attached before the same has been executed, shall have full and careful consideration on the part of the State of Mysore.

17

...s, Fleur, Street,

London, 3 - 3 - 1895.

To

Messrs. Taylor & Sons,

..., Queen Street Place,

London.

Re

Capt. A. J. de Lotbinière, R.N.

Dy. Ch. Insr. of Works.

Gentlemen,

With reference to our conversation of yesterday, I beg to submit my views on the one point which I understand Mr. John Taylor is not satisfied on, in connection with the proposed Electrical Power Installation in the Queens Dockyard, for the supply of electrical power to the Victor Hoist Pipe.

The point in question is as "to the ... of the contract of power" agreed to be carried out by the Company, whether or not all the machinery is at present, that is to say, if the Company are able and ... to supply the power, it is the opinion of ... that is returned as the required source of power (electricity) is ... as ... To discuss the question.

I fully realise the great importance you place on certainty of our machinery ... in operations and uninterrupted operation, also the danger to the shareholders interest in the event of any cessation of work in the mines.

To obviate all uncertainty on this point, I would ... put our complete plant first our Electrical power for the following ... Crane, ... Workshops, Electrical Light ... for above ... only. After ...

electrical motors to power pumps, Wi dia. machinery and co pres-
ors.

I suggest using our power on the "Above ground plant" at first, as this plant is driven a a rope belting, and whether the belt is driven by steam or electrical power no change in the existing plant is necessary.

In other words, allow the steam plant for these machines to remain in position until the event of a cessation of the electrical power, if you will note to do is to shift the belt from the electric motor to the steam motor. You have the steam plant at site, let it remain there; the climate of Kolar is so dry that for the purposes here, it will last indefinitely without deterioration.

Regarding your electrical plant, this will be installed in duplicate throughout. The lines will be continuously patrolled and frequent tests and precautions which modern science devises will make the plant as near absolute continuity in operation as possible.

The question of power reserve for the idle stamps is a necessary one, and you will find that the rope drive from the power house, for driving your underground machinery, etc., and the Wenstrom plant and pumps. Under the circumstances it is a simple and economical matter.

Some further observations on the scheme, regarding its financial aspect and certain questions.

We offer you the [illegible] I understand you contemplate erecting.

A [illegible] 000 H.P. [illegible],

6 4

6, Queen Street Place,
London, E.C. 14th September 1899.

No.15/0 of 14/9/99.

Capt. J. de Lotbiniere, R.E.
45, Ebury Street,
London.

Dear Sir,

Regarding our conversation of the 13th and 14th September we fully appreciate the position in which you are placed regarding the furtherence of your Electrical Transmission Scheme without having first obtained a direct or definite promise from the Companies concerned, regarding the utilisation of the power.

As you are anxious to proceed to America without delay to visit the Niagara Falls Electrical installation of power and similar plants throughout the States, and to make the necessary contracts for the machinery, and in order to save delay, we are prepared to assure you that the proposed scheme meets with our entire approval, and that as far as it lies with us, we shall further the adoption of electrical motive power by the various mines throughout the Field.

It will rest with the Directors of the various mining Companies to finally decide, but we have little hesitation in saying that if the State will accept certain minor modifications in the terms offered by the Chief Engineer, Mysore, in his No.626--3191 of 22nd June 99, you may feel confident that an agreement re the sale of the power will be arrived at.

The chief modifications we refer to are, 1st. the amount of H.P. to be taken at first. This may be 5000 or less.
2nd. The term for which the agreement will be binding.
3rd. The provision of the necessary conductors and motors from your central power Station.

6

6, Queen Street Place,

London, E.C. 18th September 1899.

Capt. A.J. de Lotbiniere, R.E.

45, Ebury Street

Pimblico, S.W.

Dear Sir,

We beg to acknowledge receipt of your letter of the 16th instant with copies of cablegrams and letter from the Westinghouse Electric & Company , Limited, for which we beg to thank you.

We have not yet received a reply to our cablegrams to the mines in connection with the Cauvery Electrical Scheme.

Yours faithfully,

Sd). John Taylor and Sons.

4

6, Queen Street Place

London, E.C. 27th September 1899.

Captain A.J de Lotbiniere,

45, Ebury Street,

Pimblico.

Dear Sir,

Cauvery Electric Scheme.

We beg to confirm our telegram sent to you yesterday morning as follows:-

"Have received cablegram from mines stating that 6491 horse power required for Compressors".

You will understand from this message that the proportio of the 6285 horse power required for driving the air compressing machinery is 3491 this leaves 2794 H.P. to be dealt with in your present calculation.

We should be greatly obliged if you could obtain for us some particulars concerning the Electric Transmission Scheme near Frankfort, which you alluded to in your interview here on Monday, under which the power is carried for a distance exceeding one hundred miles.

We are,

Yours Faithfully,

Sd). John Taylor and Sons.

From

Captain A.J de Lotbiniere, R.E., LL

Tc

Messrs John Taylor and Sons

6, Queen Street Place, E.C.

84, Ebury Street S.W.

8th December 1899.

Gentlemen,

Regarding the negotiations now in progress between myself as representing the Mysore Durbar and yourselves representing the various Companies concerned in the utilisation of Electrical Power from the Cauvery Falls, I have the honor to point out that these negotiations were opened by the State on the 22nd June 1899. (Please see Chief Engineer's No.626/31 to 91).

On the 14th September you wrote that the Directors' decision in the matter might be expected by the middle of October; Tc-day we are still far from a decision on your part. Under the circumstances, I request that you will give me a definite date on which I can rely as marking the completion of negotiations, either by your official acceptance or refusal of the terms offered. My time in London is limited, and if you cannot come to an early decision, I propose advising the State by cable to withdraw its offer of power to the mines.

I enclose a new term to be substituted for Term 6 of the Agreement, in accordance with your request of last meeting.

I also enclose a new Term (19) which is rendered necessary by the alteration agreed to at the last meeting.

The meaning of the latter term is briefly that if at a future date the mines have no use for a considerable portion of the Power installed, the State cannot continue to reserve its generating palnt for such portion.

I cannot

I cannot agree to consider any further alterations in principle than those now embodied in the Agreement, and if you accept the offer in its present form, it will be necessary for the various Companies concerned to sign and seal a preliminary agreement, in accordance with the draft herewith. In this Draft I have included the conditions regarding the extension of lease, which I understand you consider as vital to your acceptance of the Agreement.

I have the honor to be,

Gentlemen,

Your obedient servant,

Sd). A.J de Lotbiniere

Captain, R.E.

13

f, Cha[illegible] Street P[illegible]

L[illegible]r, 21st Dec[illegible]r 1[illegible].

Capt. A. J. [illegible]ttisl[illegible]re, R.[illegible].

84 F[illegible]r, Street, S. W.

Dear Sir,

We [illegible]ve to acknowl[illegible]e receipt o[illegible] your letter with enclosures of [illegible] t[illegible] [illegible]te we have had the pleasure of seeing you [illegible], [illegible] to [illegible] action further.

With re[illegible]t to [illegible] of the length of time occupied over [illegible], as you know, letters of this kind affecting [illegible] of property, and involving considerable [illegible], [illegible] to complete.

As [illegible] for America, we have [illegible] from the first, that [illegible] certain details could be arranged, [illegible] we have found difficult to the Companies concerned.

We have always [illegible] that since the period of the agreement has [illegible] matter of the renewal of the Mint Contract [illegible], and it is to this point that the negotiations [illegible] directed.

We regret to [illegible], that we have replied to the Duchess of Mysore, stating that [illegible] to the full, upon the subject by next mail.

Yours,

[illegible]ours faithfully,

S/. JOHN TAYLOR & SONS.

No. 38/D.

32 Ebury Street, Londo

27 - 12 - 1899.

Gentlemen,

In reply to your letter of the 21st Dece*r, I have the honor to forward for your information copies of a cable to the Chief Engineer of Mysore dated 22-12-'99 and of his reply thereto dated 25-12-'99.

2. It is apparent that our cable of the 21st to the Dewan has been misunderstood as it was despatched the day previous to mine. I am also stated that Chief Engineer's reply to my cable was drafted after careful consideration of the Dewan's, which had he intended giving a favorable reply, would not have prompted me to withdraw from negotiations with you and investigate other uses for our power. Under the circumstances it cannot improve matters your delaying to give me a definite reply as to whether the Mines will drop the conditions regarding extension of lease mentioned in your letter of the 16th instant.

3. I have been ordered to investigate other uses for our power and I cannot again recommend the case of the Mines at a future date, I therefore beg to give you Official notice that negotiations are concluded between us unless the Mines will drop the condition re the extension of lease and I request that you will kindly give me an acknowledgment of having received this letter.

I have &c.,

Sd/. A. J. de Lothiniere.

41

Messrs. John [illegible] Sons.

8 - 1 - 1900.

[illegible] Street.

S. Y.

Gentlemen,

In reply to your letter of the 6th inst., I have the honor to state that I have received instructions by cable from the Mexican Government to inform you that it is willing to reduce the price for its Pulleys to $12 per H. P. per annum for the latter five years (in the proposed Contract). In addition the Government is willing to pay the freight on the Pulleys and that Messrs. [illegible] will receive the Pulleys free of the water at Vera Cruz [illegible].

As soon as [illegible] is required, [illegible] this in England is now very limited.

Sd/. A. J. de Lotelmiere.

12

6 Queen Street Place,

London

11th January, 1900.

E. C.

Capt. A. J. de Lotbiniere.

Dear Sir,

Carvery Electric Co. ...

The Committee of Chairman of Directors met today, when your letter of the 4th instant was laid before them.

In reply the Committee desire me to say that they regret the rate per H. P. practically arranged for the second five years should not now be approved by the Home Government.

The Committee would be prepared to pay at the rate of £ 12 per H. P. for the second five years, but would be prepared to agree that the rate should be £ 10 for those years.

In view of this important point, the Committee urge that the rate for the 3rd, 4th, 5th and 6th years should be provisional, £ 15 per annum instead of £ 12, £ 13, £ 14 and £ 15 as at present stipulated, and they desire that you should place this view before the Government.

Yours faithfully,

Sd/. JOHN TAYLOR & SONS.

No. 39/D.

John Taylor & Sons.

84 Albert Street, London

11 - 1 - 1900.

Canvey Electric Scheme.

Gentlemen,

In reply to your letter of 10th inst.

Regarding your offer of £10 per H. P. for the second five years of the Agreement, the Committee of Chairman and Directors at Lowestoft have this day

I have to inform you that I agree to this figure (£10) being entered in the Agreement in place of £ 12, as desired by the Directors.

In regard to the last paragraph of your letter, I cannot agree to the proposal contained therein to alter the price for the 3rd year of the Agreement, i.e. that the price per H. P. be reduced from £ 2 to £ 1, but I am sure you will see that the Directors will act in the matter according to the spirit of the original offer in order, and that they will refer up to the limit of £ 2, on every occasion the financial aspects of the Canvey Scheme will justify this action.

Under the circumstances I consider it inadvisable to refer the question to India, and I cannot agree to any alteration being made in the Agreement regarding this point.

Sd/. A. J. de Rothbiniere.

14

6, Queen Street Place,

London, 12th January 1900.

E. C.

Capt. A. J. de Lotbiniere, F.E.

Dear Sir,

We received your telegram this afternoon reading as follows viz :-

"Francis will postpone meeting of Council for the "third time can you expedite matters on Monday at latest".

We understand from Messrs. Francis & Johnson, that it is impossible to arrange for the Conference with Council, to be held before Monday next.

Yours faithfully,

S&/. JOHN TAYLOR & SONS.

25

6, Queen Street Place

London, 20th January 1900.

E. C.

Capt. A. J. De Lotbiniere, R.E.

Dear Sir,

Referring to our conversation yesterday afternoon, we hear from Mr. Francis that Mr. Bramley is down with Influenza which will no doubt keep back the preparation of the Draft.

We shall be pleased to see you on Monday next at 3 o'clock P.M. this being the most convenient time for an interview on that day.

We are,

Yours faithfully,

Sd/. JOHN TAYLOR & SONS.

26

6, Queen Street Place,

London, 2nd February 1900.

E. C.

Capt. A. J. de Lotbiniere,

Bangalore.

Dear Sir,

Cauvery Scheme.

We have to inform you that we have today received the Draft Agreement revised by Mr. Bramley on behalf of the Mysore Government.

We understand that Mr. Bramley has been indisposed, which is the reason for the delay.

We shall now take steps to settle the document & and it will be forwarded to you forthwith.

We trust that you have had a pleasent journey.

We are, Dear Sir,

Yours faithfully,

Sd/. JOHN TAYLOR & SONS.

(Confidential to Secretary P.W.D).

Diary in connection with my deputation to Europe and America regarding contracts for the Distribution Plant in form of weekly letters to Chief Engineer, Mysore, Public Works Department.

Dear Col. Campbell,

I sailed from Bombay 28th July and arrived in London 13th August 1900.

August 14th. I called on Captain Thomson, but found he was away for the day, he will return this ~~morning~~ evening. Called on Coutts and Company. Met one of the partners and Mr. Ronald who manages all Mysore business. Mr. Ronald went over the instructions he had received, with me, and fully understood the procedure to be followed. He thinks the method for payments we propose to adopt will work satisfactorily. He had no suggestions of any sort to offer.

Regarding clause 7. re Capt Thomson's salary; in this we say Messrs Coutts and Co. will be instructed to pay Captain Thomson's cheques &c. These instructions are still awaited by Coutts and Co. In the meantime I have taken upon myself to instruct Coutts and Co. to pay any cheque for salary pending the receipt of the official instructions. Please see that this letter is sent as soon as possible. I did not think it would be necessary as Thomson's instructions have the Dewan's signature, but Coutts thinks it would be better if the authority was sent as mentioned in the clause under reference.

General Electric Company have sent Coutts and Company their note for the first payment of 10 per cent. Apparently they ~~have~~ had not received copy of Thomson's instructions, so the

claim was not sent to him for countersignature. Coutts explained the system to their agents and the matter will be rectified without delay. (Payment has since been made of £ 7,506-10-0) Id/. A.J.L.L. 15/8/[illegible]. If the payment was not made this evening, I will see that it is made first thing tomorrow.

I next called on Mr.Steiger and went over all his plans for the Hydraulic Plant. His plans are practically completed and now only require Professor Unwin's opinion and any suggestions he has to make. Steiger is in communication with the General Electric Company and they are working together. Thomson is hurrying Steiger up and I hope the revised tender and specification will be received from Escher Wyss and Co., by the end of the week at latest. I have informed Steiger that his firm must complete the Hydraulic Plant on the same date as the Electrical Generating Plant; this brings his time for completion to 19 months, as one month has already run since Electrical tender was accepted.

I next called on J. Taylor and Sons and met Mr.John Taylor and the second partner. First I produced the allotment of power as finally decided upon by Mr.Arthur Taylor and myself, and approved by you. Taylor had already received a copy from India. I requested that he would formally approve of these allotments. He did so at the foot of the paper so that point is now definitely settled and cannot be changed. Under the circumstances, I am perfectly safe in going on with the Distribution Plant contracts.

We next discussed the type of compressors to be used, Walkers and Ingersoll Sergeants. I explained the position I was in re these compressors, i.e.,I must have a definite guarantee from the electrical people covering the compressors also, as both machines,i.e.,motor and compressor,are on one bed plate, and we cannot have a different firm guaranteeing each end of the machine. The General Electric Company will

guarantee Ingersoll Sergeants compressors, but I am not sure if they will do the same for Walker. I explained all this, and Taylor agreed to accept either type of compressor, also the General Electric Company or any one of the leading companies for the Electrical Plant. I will put this on paper and get Taylor's approval in writing before I leave for America, as if I can do this it will save my waiting in America till Taylor approves of the plant which we propose to supply (Please see the latter part of clause 2, secondary agreements).

In this clause, the managers for the time being are J. Taylor and Co. ~~Taylor~~

Taylor next discussed the question of their fee as agents for the State. In our letter offering them £1,000 per annum for acting as our agents we do not state from when the payment will be made. Taylor showed me his letter to you on this point I informed Taylor that we proposed to make the payment to him from the date on which the power is actually delivered to the mines, as it is from that date that the payments will commence and the collection and payment into Coutts of this money will form the bulk of his work. Taylor thought that this was only fair and quite agreed that payment should not commence before that date. However he suggested that for the last twelve ~~mont~~ months he has had a very considerable amoun of work to do in carrying on negociations for us with the individual companies in attending meetings &c., in connection with the Electrical Scheme and for this work he has not received anything from the the Companies. I replied that I fully recognised that, and also various members of his firm had spent many hours with Captain Thomson and myself, in India and London, discussing points in the Scheme. I then made the following proposal which John Taylor considered was fair. "That the Government of Mysore should pay his firm £ 500 for work done for it during the interval between August 1899 and August 1900. That nothing should be paid for the next 20 months and that the paym nt of £ 1,000

per annum should commence from the date we deliver power on the Field". Please consider this proposal if you have not already dealt with Taylor's letter on this subject.

Taylor next asked me if it would be feasible to let him see the proposals for applying the power to the mills. I arranged to call on Thursday with my notes on the various mines and plans &c., and explain the system.

I wrote to Walker Brothers this evening and asked them to send a representative to meet me as soon as possible. If I can arrange matters with Walker, I shall sail for New York on Wednesday week.

August 15. I met Thomson this morning and spent the day in the City with him. We first discussed the question of the contract for the Distribution Plant. Thomson thinks that before closing the contract, I should send the whole of the papers to him and give him an opportunity of going over the proposals before finally accepting the tender. This will mean a delay of a couple of weeks, as I shall have to wait in America, after receiving the tender, till Thomson has had time to go over it and take what expert advice he may consider necessary. However I consider that his suggestion is sound, and though I am extremely anxious to save delay, I cannot help thinking he is right and that I should have outside expert advice before concluding such a large contract on my own responsibility. His opinion re the General Electric Company's proposals and tender will be wired to me in America so that the delay should not be for more than 14 days.

We called at Coutts and Co., and found that the first instalment of 10% had been paid yesterday evening; the sum paid being £7,504-10-0. We next called at the London Branch office of the General Electric Company (this has recently been opened)

I discussed the question of Compressors with Mr.Clarke,

the Manager. I am glad to say that from enquiries made by him regarding Walker Brother's Compressors, he has now no hesitation whatever in advising his firm in New York to guarantee the Walker Compressors on the same terms as they had agreed to guarantee the Ingersoll Sergeant's machines. This London office is not, at present, in a position to work out the specification and tender for our plant. This will simplify matters considerably as it will enable me to meet the wishes of the various mines managers on the Fields and also of J.Taylor, as practically all interested in the matter have asked for Walkers Compressors,without exception. Under the circumstances, there is now no reason for my going to Ingersoll Sergeant, unless with the view of bringing Walker's prices down.

Regarding this point, the mines pay all charges for Compressors above £4-0-0 per H.P and if they prefer that I should put in Walker's Compressors and not go to the open market, in order to lower the price, it is their look out. They consider Walker's the best machine and I don't blame them for wanting it I then had a long interview with Mr.Walker, the head of the Firm of Walker and Sons. We, that is, Thomson, Walker, General Electric people, and self are to meet at the office of the General Electric Company to-morrow and discuss all points of the case. After that is settled, I am ready to start for New York.

Apparently it will be harder to reach America by way of the Atlantic than if I had sailed the opposite way, via India and Japan, as I called at every steamship Company's office today to try and engage a passage and inavariably got the same reply "full up with Americans returning from Exhibition". I really don't know what to do. The White Star Line offer me one of the ship's officers cabins for £70/ as a favour. The North German Lloyd had a double berth cabin for £100/ and these are the only two offers I could get from any of the shipping Companies. I cannot accept either of these offers unless I am

absolutely forced to do so, as the charges are exhorbitant. I shall wait for a day or two more in hopes of some one cancelling a passage at the last moment. Last year I only paid £13/ going over and £15/ returning. It is useless my waiting in London till the rates fall again, as this will not happen for the next three months or more, so I am afraid I shall have to face the cost whatever it may be.

August 16th. I commenced the day by making a tour of the shipping offices in hopes of getting a passage to New York early next week. I think I have succeeded in securing berths on the "Aller" a small German ship, but will not know till to-morrow. I met Thomson by appointment in the City and we called on J. Taylor with all my plans and notes &c.,of the Distribution. Mr.J.Taylor went over these with us and considered the proposals most simple and satisfactory. There was one error in my allotments due to a misunderstanding in India, i.e.,Goregaum was to have a new mill of 120 heads (we thought this in India) but Taylor showed me the plans which have been prepared in London and these provide for 100 Heads only. This means a slight alteration (from 120 to 100 H.P each) in the size of the motors for the mill. The extra H.P available (60) due to reducing the motors will be put into the Compressor for that mine.

I then put a question to Taylor and Thomson, the reply to which is very apparent to me, but is not very clearly expressed in the Agreement with the Mines. The question is this:- In the Agreement we undertake to pay £4 per H.P for Compressors the Mines paying back to Government the cost above £4 per H.P entailed in providing the Compressors, during the second year. I considered it understood from the beginning that the cost of the Compressor meant not only the original cost in England, but the packing, carriage, insurance, erection, foundations and building,in which it stands,on the Field, in other words, the cost of the Compressor installed. The wording of the Agreement

is slightly vague on this point, but, after fully discussing it Thomson and Taylor both agreed that I was right and that the Mines should pay all of the total cost over £4 per H.P (barring the cost of motor) entailed in suitably installing the Compressors. I argued that if the Mines did not pay for the buildings we might use "sundried" bricks in mud for our buildings quite sufficient to last during the year of maintenance. I think this is right. We cannot be called upon by the Mines to erect pucca buildings for the Compressors and if we do so the Mines must refund us the outlay if it amounts to anything over £4 per H.P. Thomson is to see Mr.Francis, the solicitor to the Mines and ask him if this point is clearly enough stated in the Agreements, if not, a foot note should be added to each agreement placing the question beyond doubt. This is very necessary, as the payment will not be made for nearly 2½ years and the point may be lost sight of.

(Signed). A.J de Lotbiniere.

No time before mail leaves to copy remainder of diary for 16th

Id/. A.J.de.L.

Dewan's note on the above dated 3rd September 1900.

I. I have asked Mr. Thumboo Chettiar to send Messrs Coutts written authority to pay Captain Thomson's cheques on account of salary &c.,under para 7 of the Instructions.

II. Under the circumstances we cannot well refuse £500/ which Capt Lotbiniere promises Taylor and Sons as remuneration for work up to August 1900, the annual salary of £1,000/ commencing only from date of delivery of power at the Mines.

Letter dated, London, 14th August 1900, from Capt. A J. de Lotbiniere R.E.,to Messrs John Taylor and Sons.

In continuation of our conversation of this afternoon regarding the Electrical Distribution Plant to be used throughout the Kolar Mine Fields.

According to the latter part of clause 2 of the secondary agreements, the approval of the manager, for the time being, of the Company, should be obtained by the Government of Mysore before the machinery is ordered. As explained yesterday, Government of Mysore are only dealing with the leading firms of the world, regarding the machinery to be supplied, such as the General Electric Company of New York for Electrical Plant and Messrs Walker Brothers, or Ingersoll Sergeant, for the Compressor required. If satisfactory terms can be arrived at regarding the guarantee of efficiency &c.,between the Electrical firm and Messrs Walker Brothers, I propose inviting the latter to tender for five Compressors of 150 H.P each and Messrs Ingersoll Sergeant for the remainder, or I may give Walker Brothers the larger share according to circumstances, such as cost, date of delivery &c.

I am writing to you now in order to obtain your approval to the following firms being called upon for tenders for the Distribution Plant.

General Electric Company of New York
Westing House Company. .. (possibly)
Walker Brothers of Wigan, England
Ingersoll Sergeant of London and New York.

It is essential that I should deal with firms only which have your approval; if this be the case it will enable me to proceed at once and conclude the contracts without the delay of further reference to you.

Regarding the method of applying the Electrical motors to

the Mills, I shall call on Thursday morning with my plans and notes.

I may mention that the various Superintendents of mines on the Field have all seen my notes &c., and have given their approval in each case. I will lay their letters before you on Thursday.

D.O. dated, London, 16th August 1900, from Capt Lotbiniere to Thomson Esquire., Secretary to the Electrical Power Transmission Scheme.

Before leaving England for America, I think it advisable to review and to put in order the conclusions and arrangements we have arrived at, and made during the last few days.

1st. Taking the tender for Hydraulic Plant. This must be pushed through with as little delay as possible and Unwin should be asked to devote himself to going through the proposals and submit his report as early as possible.

Please also bear in mind that Escher Wyss and Company must finish the erection of the Hydraulic Plant concurrently with the Electrical Generators &c. This means that the time for completion of their tender should be 18 months, as already more than one month has run out of the 20, for Electrical Generators and Transmission lines now under construction by the General Electric Company.

2nd. Regarding the Distribution Plant tender.

As you know Walker Brothers have been asked to tender through the General Electric Company for all Compressors. Try to have their tenders leave England for America within one month from date, if possible, and see that foundation plans are supplied for each size of machine.

I do not consider overhead cranes will be necessary for the compressor buildings.

Regarding the change which may be necessary in Ooregaum mine plant; when Taylor arrives at a decision, please cable result to me C/O General Electric Company, New York, and <u>not</u> to Quebec, as I shall be in New York.

If <u>no change is to be made</u> wire the word " ALLOTMENTS -if change to 3 motors of 100 H.P and one Compressor of 260 H.P, wire "COMPRESSOR"- if change to be 3 motors of 100 H.P and Com-

Compressor of 300 H.P, wire "STANDARD". On receiving any of these three words, I shall, if necessary, alter the table of allotments accordingly.

Please get Taylor to give you the alteration he requires made in writing. Regarding the clause (in secondary agreements) re payments to be made for Compressors: if Francis & Co.,consider that the clause, as it now stands,covers payments by the mines for buildings, founds, carriage, Insurance, erection, maintenance &c., and in fact all charges in connection with the purchase and installation of the plant, please endeavour to obtain his opinion in black and white in order to have it endorsed on each agreements.

Regarding procedure to be followed by you on receipt of the papers comprising tender and specification for the Distribution plant: Please go over these carefully and if any proposal contained therein strikes you as requiring modification or entails a departure from the best recognised practice, please consult an expert on the special point in question. If in your opinion nothing of any moment requires alteration, please cable the words "Tenders satisfactory"; this cable should be addressed to Lotbiniere Quebec. On receipt of your cable, if I also am satisfied, in every way, with the tender, I shall immediately accept it on behalf of the Government of Mysore and wire you that I have done so, in order that you may be in a position to endorse the bill for payment, i.e.,the 10% of tender to be paid to the contractors on acceptance of contract by the Government of Mysore.

If you are not satisfied with the tender and consider it necessary, after consulting an expert, that certain changes should be made, cable me in full the point at issue, and I also shall take independent expert opinion either in Canada or the United States.

To revert to the Hydraulic Plant once more.

Please see that Escher Wyss and Company send Col. Campbell the foundation plans for the Generator Station within the period laid down,i.e.,56 days of acceptance of tender. Please note that my address for the present will be C/O General Electric Company, New York. Mr. Clark will tell you the full address, also their telegraphic address, which I think is "Genectric" New York, but you had better make sure of this. I am sailing on Tuesday the 21st instant.

Copy of Diary.

Septr. 30th. I left Quebec for Schenectady on the morning of the 25th and arrived at the offices of the Co. at 8.30 A.M. on the 26th.

Previous to leaving I received a wire from the G.E. Co to say the proposition was in shape for my perusal. I met Mr. Ekstrom at the works, also the following Officials with whom I had frequent interviews during the following three days :-

Mr. Oudin, Asst. Gen. Man. Foreign Dept.

Mr. Conover, Engr. Foreign Dept.

Mr. Levis, Jr. Solicitor to the Company.

Mr. Darling, Financial Manager.

Mr. P. Gilbert, Shipping Dept.

Gen. Griffin, 1st Vice President, whom I met for a short time.

The result of my interviews may be summed up in a few words.

The G.E. Co. have submitted to me a tender and specification for the whole of the Distribution Plant, its carriage to India (but not carriage in India) erection and maintenance for one year, for the sum of $ 252,300 or £51,913.

The only item of machinery not included in this, is the cost of converting a 300 H.P. steam driven Compressor to Electrical driven, but the motor is included. When you consider that this sum £ 51,913 includes, besides the whole of the Distribution Plant, motors, hoists & pumps, lines of conductors &c, the 11 (eleven) compressors, Receivers & Piping, & their carriage, erection & maintenance, I think you will be satisfied that we were well on the safe side in providing £ 70,000 in our original estimate. Personally I am very pleased and satisfied with the situation, as we will now have a very substantial saving on the Distribution, which will more than meet any excess we

may have on the Generating & Transmission Section of the work.

The cost of the Compressors, which will be built by Ingersoll Sergeant, as sub-contractors, comes to about £ 10,000, the mines refunding the excess over £4 per H.P.
We only pay £ 8,600 of this, i.e. £4 per H.P. They will also eventually repay the greater portion of our local expenditure in India, on buildings for the Compressors.

I reached Schenectady in a very unhappy state of mind, owing to Walker's treatment of me, in asking nearly £ 40,000 for his compressors. Apparently he thought that I was bound to buy from him. Thank Goodness such was not the case, as Ingersoll Sergeant are 75 per cent lower. Had Ingersoll Sergeant asked the same as Walker we should have been in a fix, as the Electrical Plant etc, comes to about £ 41,000 alone and our whole estimate of the cost was only £70,000. However I expect you will be figuring out these questions for yourself as you will have received my cable of the 27th Septr. as follows, read :-

> Campbell Bangalore India, G.E. Co. tenders £ 53,000 for Distribution Plant, Compressors Supply Carriage Erection Maintenance. Wire me authority to accept & execute contract behalf of Govt" ends.

The reduction from £ 53,000 to £ 51,913 is due to my asking the G. E. Co. to strike out a 300 H.P. compressor which they had provided in place of the steam driven one to be converted. If however Walker will carry out the conversion for a reasonable sum I shall give him the work, if not, I shall order a new compressor, if it is as cheap or cheaper than converting the old one, so that in the end the plant will cost about £ 53,000, Say it costs us one lakh or £ 7,000 to do our share of the work in India, we shall have a saving over the Estimate of £ 10,000.

Again the Mines will have to refund us about £ 5,000 for excess over £4 per H. P. on the Compressors, during the 2nd year, so we may say our saving will be £ 15,000 or over

etc, as per clause 7, Articles of Agreement, will be made direct to the Bank and Not to Mr. Ekstrom (who will be the Company's Chief Engineer in India).

The payments will be made monthly except in the case of sea freight, on Bills drawn up by Mr. Ekstrom and checked by us, we then pay the Bank and retain all vouchers etc submitted by Ekstrom. The Bank then sends us a receipt and that payment is concluded.

Mr. Ekstrom has Power of Attorney from the G.E. Co. to draw on the Bank for his expenditure.

We simply pay the Bank on receipt of the necessary bills and vouchers from Mr. Ekstrom.

Regarding payments for sea freight, we, on receipt of Endorsed copies of Bills of Lading and Invoices, pay into the Bank of Madras the amount due in India which as a rule will be 25 p.c. of the freight.

These documents will be issued in original, duplicate, triplicate and quadruplicate, one copy to Chief Engineer one to Thomson, one to Pemberton, Agent at Marmagao and one to Ekstrom. All copies will be endorsed by G. E. Co.

The Bill of Lading will show the amount paid in America on the ~~Shipmentyiabdr of and be if for India~~ Shipment and that due in India. Thomson will refund the former in England plus 5 p.c. We will pay the balance due say 25 plus 5 p.c. on receipt of the documents in India.

Regarding payments for plant, 30 p.c. of which is paid in India, the Bank will receive money under three heads - Plant, Carriage, Erection & Maintenance, and we will keep the payments we make under these headings.

This arrangement aims at freeing Mr. Ekstrom from as much financial worry as possible, and putting the Bank of Madras in the place of the Financial Department of the G.E. Co.

The Bank of Madras understands our system of accounts in India and I think we will find it more convenient to have our financial transactions with it. In order to give Mr. Ekstrom a working balance on his arrival in India, which will be about the 15th December I have arranged that instead of paying the whole of the 10 p.c., due on Execution on Contract for the Distribution Plant, we will pay in London £ 1,000 less than the full amount, this balance of £ 1,000 remaining to be paid will be placed to the credit of the Company with the Bank of Madras in Bangalore.

My dear Colonel Campbell,

Sorry I have to close up my diary without finishing it, but the rest of my doings at Schenectady refer to minor points. I have received your cable authorizing me to execute the Contract on behalf of Government. I will do this in New York on the 8th of October. The delay of a few days is due to my wanting 4c copies of the whole of the papers and as as these are bulky the G. E. Co. are having them printed.

Your last letter asked me to send original survey of the Transmission Line. I will send it from London on my arrival there on the 18th October.

I have received Marikanave papers and will attend to that. I have little work to do in London, only to settle re the conversion of one Compressor and a few questions with Mr. Thomson, so I hope to sail for India about the 8th November if I can get a passage. I have secured one for the 16th from Marseilles, but as things have turned out I hope to return earlier. I will visit Escher Wyss & co works on my way to Marseilles and see the Turbins. The G. E. Co. are taking infinite trouble to make our Scheme an absolute success regardless of expense to themselves .

They have just changed the proposed type of Insulators for a new type which proved better than theirs when tested. This change entails their supplying very much more expensive Insulators than their tender provided for, but they stand the difference, not we. Excuse shortness of letter. I must catch the mail. Kindest regards to yourself and the Dewan. I am extremely pleased that we have a saving on Distribution Plant.

Yours very sincerely,

Sd/. A. Joly de Lotbiniere.

Submitted to the Officiating Dewan of Mysore for perusal and favor of return.

Sd/. D. McNeil Campbell.
Colonel,
Secretary To Govt. P.W.D.

Bangalore
29-10-00.

Seen and returned. Let the Comptroller note the arrangements for payments in India through Madras Bank, Bangalore Branch.

(Intd). T. R.A .T .

29-10-00.

Copy of Diary.

Nov. 2nd. Called on Mr. C. Temperly, Managing Director of the Millars Karri & Jarrah Wood Co. He had cabled to Australia re steamships for carrying our wood, but had had no reply.
I also called on Ransome & Rapierin order to get the revised plans for the Mari Kanave Sluice. I was informed that they would not be ready till Monday or Tuesday, as Mr. Stokes the Managing Director was anxious to consult Sir B Baker on a small matter which we had omitted to mention the other day.

3rd. Packed up heavy baggage and had it sent to P & O Docks

4th. Sunday.

5th. Had an interview with Mr. Charles Temperly and definitely settled the question of shipment of our poles. Mr. Temperly had received a reply to his wire to say that a steamship company (I dont remember which) was prepared to commence shipping the poles in Dec. & Jan and would take 300 loads during these months. The cost per load works out to eight shillings and nine pence above the rate for sailing freight. A load means 50 cft. and our poles contain about 5.8 cft each, so one load means 8.62 poles and 300 equals 2586. This means that out first shipment should arrive in Madras about the end of January or possibly earlier, and from then onwards we will get regular supplies till the full order is delivered in April. I calculate that we will have approximately 1000 loads, and at eight shillings and nine pence per load extra for steam delivery we will have to pay £437 pounds in excess of our original estimate which was based on sailing vessel rates. After considering the matter I agreed on behalf of the Government to accept the enhanced rate, for many reasons. In the first place the G. E. Co. is very anxious to erect the poles and line as soon as possible, in order to have it thoroughly tested by the rain before it is put into use. Ekstrom places more importance on a thoroughly well built line than on any other section of the Scheme, and I think he is right Secondly, there are four Erectors whose average pay will be at least Rs. 500 per mensem, if they had to wait say five months

The winding was done by steam. The whole plant worked most beautifully, and the Fall rope carriers were dropped and picked up without any hesitation by the Main Carrier and apparently nothing better could be desired.

I received your letter of the 18th September this evening. It made me very unhappy to see what a lot of worry you and the Acting Dewan had had over the payment for the shipment of line materials, question of poles etc. You also thought that the G. E. Co. were sending us copper at this early date.

Before you read this you will see from my previous diaries that the points you mention had all been thought of and settled beforehand. If I remember rightly the 1500 tons of line materials (which consist of pole sockets, pins, struts for cross arms, Insulators, Pole Caps etc) come to about £40,000 and as we pay according to "conditions of payment in Contract" really less th than £ 20,000. will be required on shipment. I discussed this point with Coutts and he is prepared to pay £ 30,000 or £40,000 pounds at a moments notice if necessary. The G.E. Co. have not applied for payment, and as you will see from my Diary when at Schenectady, I arranged with the Treasurer that Thomson would always be given six weeks notice, before any large bill was to be presented, in order to allow him to give Coutts & Co ample warning. I really do not think that you need have any anxiety re payments. Coutts & Co have arranged to advance the money required, so whether we have a balance of £1 or £ 100,000 the bills will be paid as promptly in one case as in the other. In order to set your mind at rest, I sent the following cable this evening.

"Campbell, Bangalore

"I have settled payments for line shipments also for quick delivery of wooden poles. Plans Station mailed. No Copper shipped till required Lotbiniere".

London

November 5th. 1900.

Copy or a letter to Messrs. Millars' Karri & Jarrah Forests Limited, 72 Bishopsgate Within, E.C.

Gentlemen,

After our recent conversations I have the honor to State on behal f of the Government of Mysore that, in order to expedite the delivery of the timber ordered from you on August 30th, I am prepared to pay an extra rate of 8/9 (s d) per load to cover enhanced carriage due to the employment of steamers. I understand you have arranged the first shipment of 300 loads during December and January.

Kindly add to the Govt's original order an extra 500 Poles of the same dimensions: this will bring the total order for poles up to 8000. I presume the rate for the extra 500 Poles will be the same as for original 7500.

I have &c

Sd/. A.J. De Lotbiniere

P.S. It is understood that you forward the whole by steamer as fast as possible. I calculate the order is roughly 1000 loads taking 50 cft. equals 1 load.